

**Software Requirements Specification Document**

**Course Name:** Software Engineering & System Analysis Lab

**Course Code:** CSE 356

**Project Name:**Local Event and Resource Coordination Website

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1. **Introduction:** 
   1. **Purpose:**

The purpose of this project is to create a Local Event and Resource Coordination Website that centralizes local event management and resource coordination. The platform aims to streamline user interaction with events and services by providing real-time updates, interactive boards, and personalized recommendations. It will serve as a one-stop destination for residents to stay connected with community activities and resources.

* 1. **Intended Audience and Reading Suggestions:**

The intended audience includes:

***Local Residents:*** To help them discover and engage with local events and services.

***Event Organizers:*** To streamline the management and promotion of events.

***Organizations:*** To efficiently manage community resources.

***Developers:*** To understand the technical and functional requirements. Readers should focus on their relevant sections; organizers and developers might want to review the functional and system requirements, while residents could focus on the user interface and experience aspects.

* 1. **Project Scope:**

This project will build a website with features like an integrated calendar, real-time notifications, interactive community boards, and a mobile-friendly design. The project aims to enhance community engagement by offering a unified platform for local events and resources. The platform will allow event organizers to manage events efficiently, and residents will have easy access to local activities and resources. The project will be built using HTML, CSS, JavaScript, PHP, and SQL.

* 1. **References:**

● Web development best practices for user engagement.

● Real-time data update methodologies.

● User interface design principles for accessibility.



1. **Overall Description:**
   1. **Product Perspective:**

This website aims to address the lack of a unified platform for local event management and resource coordination. It will integrate various services, such as event listing, resource management, and community interaction, into one seamless platform. It will act as a bridge between local residents and organizations, offering a more organized and interactive way to engage with local resources.

* 1. **User Classes and Characteristics:**

***Residents (Users):*** Residents will interact with the platform to find events and resources, receive real-time notifications, and participate in community discussions.

***Event Organizers:*** Organizers will use the platform to list and manage their events, track engagement, and communicate with participants.

***Administrators:*** Admins will oversee the system's operations, ensure data integrity, manage technical support, and update features.

1. **System Features:**
   1. **Functional Requirements:**

***Centralized Calendar:*** A unified calendar that aggregates all local events and resources, searchable by categories and keywords.

***Real-Time Notifications***: Push notifications for event changes, new resource additions, and community updates.

***Interactive Boards:*** Community forums for discussion and feedback about events and resources.

***Resource Management:*** Tools for organizations to add, modify, and promote resources.

***Mobile-Friendly Design:*** Fully responsive design to ensure accessibility across all devices.

1. **External Interface Requirements:**
   1. **User Interface:**

The user interface will be simple and intuitive, offering a clean design with clear navigation. Key features like the calendar, search bar, notifications, and community boards will be easily accessible.

* 1. **Software Interfaces:**

The system will rely on several software technologies:

● Frontend: HTML, CSS, JavaScript

● Backend: PHP for server-side operations

● Database: SQL for managing data storage

1. **Nonfunctional Requirements:**
   1. **Performance Requirements:**

● The website must handle real-time updates without significant delays.

● Page load times should be under 3 seconds on average.

● The platform must handle at least 500 simultaneous users during peak times.

* 1. **Safety/Security Requirements:**

***User Authentication:*** Secure login for organizers and administrators with encrypted passwords.

***Data Privacy:*** Secure storage of user data in the database.

***Regular Security Updates:*** Regular patches and updates to protect the system from vulnerabilities.